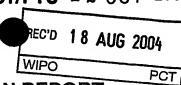
Rec'd PCT/PTO 12 OCT 2004







# INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P 02 058 WO				FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/DK 03/00237				International filing date (d 09.04.2003	lay/month/year)	Priority date (day/month/year) 09.04.2002		
	ational B26/0		t Classification (IPC) or bo	oth national classification a	nd IPC			
Applic		S et a	al	.· -				
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>								
2.	This	REPO	ORT consists of a total of	of 5 sheets, including th	is cover sheet.			
	□ .	This	report is also accompa	nied by ANNEXES, i.e. s	sheets of the descript	tion, claims and/or drawings which ha rectifications made before this Autho	ve rity	
		(see	Rule 70.16 and Section	607 of the Administrati	ve instructions under	the PCT).	Ť	
	Thes	é ann	exes consist of a total of	of sheets.				
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3.	This	repor	t contains indications re	elating to the following ite	ems:			
*	•	■ Basis of the opinion						
	11							
	Ш		Non-establishment of	opinion with regard to n	ovelty, inventive step	and industrial applicability		
	IV		Lack of unity of invent					
	٧	$\boxtimes$	Reasoned statement citations and explanat	under Rule 66.2(a)(ii) wi dons supporting such sta	th regard to novelty, i stement	inventive step or industrial applicabilit	ıy;	
	VI		Certain documents cit	•				
	VII		Certain defects in the	international application				
	VIII		Certain observations	on the international appl	ication			
Date	of sub	missio	n of the demand		Date of completion of	this report		
07.11.2003					17.08.2004			
Nam	e and i	mailing	address of the internation	nal	Authorized Officer	atteches Peta	estate.	
European Patent Office								
	<i>()</i>	Tel	80298 Munich . +49 89 2399 - 0 Tx: 5230	656 epmu d	Schenke, C			
1 —		Fax	k: +49 89 2399 - 4465		Telephone No. +49 8	9 2399-8191 <b>***</b> *********************************	. Oz	

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK 03/00237

l.	Basis	of	the	re	port
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1.	With regard to the <b>elements</b> of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):								
	Description, Pages								
	1-15	5	as originally filed						
_	Çļại	ims, Numbers	and the second of the second o						
	1-20		as originally filed						
	Dra	wings, Sheets							
	1/4-4/4		as originally filed						
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.								
	These elements were available or furnished to this Authority in the following language: , which is								
	☐ the language of a translatio		on furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publicatio	n of the international application (under Rule 48.3(b)).						
		the language of a translati Rule 55.2 and/or 55.3).	on furnished for the purposes of international preliminary examination (under						
	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the internatio	nal application in written form.						
		filed together with the inte	rnational application in computer readable form.						
	☐ furnished subsequently to this Authority in written form.			this Authority in written form.					
		furnished subsequently to	this Authority in computer readable form.						
		The statement that the su in the international applica	bsequently furnished written sequence listing does not go beyond the disclosure tion as filed has been furnished.						
		The statement that the inf listing has been furnished	ormation recorded in computer readable form is identical to the written sequence						
4.	The	e amendments have resulte	d in the cancellation of:						

the description,

the claims,

the drawings,

pages:

sheets:

Nos.:

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This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims No:

1-35

Claims

Inventive step (IS)

Claims

1-35

No: Claims

Industrial applicability (IA)

Yes: Claims

Claims

1-35

No:

2. Citations and explanations

see separate sheet

### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1.

D1: DE 198 40 017 A (FUJI PHOTO FILM CO LTD) 4 March 1999 (1999-03-04)

D2: US-A-5 646 786 (KURTZ ANDREW F ET AL) 8 July 1997 (1997-07-08)

D3: US-A-5 825 552 (DEBESIS JOHN R ET AL) 20 October 1998 (1998-10-20)

D4: US-A-6 089 719 (LIN SHANG-YI) 18 July 2000 (2000-07-18)

- Document D1, which is considered to represent the most relevant state of the art, 11. discloses (col. 10, I. 23 - col. 11, I. 16; fig. 6) a light illumination apparatus from which the subject-matter of claim 1 differs in that at least two spatial light modulators and associated light emitters are used for illumination of the illumination surface, whereas the apparatus known from D1 uses three primary light sources emitting single light beams which are modulated by acoustooptic, electrooptic or magnetooptic modulators and subsequently scanned over the illumination surface.
- The subject-matter of claim 1 is therefore new (Article 33(2) PCT), as are the BOR. corresponding methods of illumination of claims 32 and 35.
- The problem to be solved by the present invention may be regarded as how to decrease the required time for scanning a given area of an illumination surface.

The solution to this problem proposed in claims 1, 32 and 35 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

None of the cited documents discloses or suggests the use of two or more spatial light modulators (SLM) in a light illumination apparatus. As pointed out above, D1 does not at all mention the use of a SLM. Documents D2 and D3 describe optical systems for illuminating a multi-element SLM from a multi-emitter laser array and give no hint on using multiple SLMs in a light illumination apparatus. Document D4 discloses a projecting device comprising three SLMs for another purpose: The three SLMs generate three primary images (red, blue, green) which are to be superposed by a

## INTERNATIONAL PRELIMINARY International application No. PCT/DK 03/00237 EXAMINATION REPORT - SEPARATE SHEET

beam combining unit. Further, the SLMs of D4 do not each have an associated light emitter arranged therewith and the projecting device does not comprise means for performing a relative movement between the "exposure head" (10) and the illumination surface (24).

Therefore, on the basis of said documents a skilled person is not obviously led to the subject matter of the present application.

Claims 2-31 and 33-34 are dependent on claims 1 and 32, respectively, and as such also meet the requirements of the PCT with respect to novelty and inventive step.